

CLAIMS

1. A glass batch based on a soda-lime-silica composition for obtaining a bulk-tinted amber glass,  
5 characterized in that said batch comprises, per 100% by weight of batch, 0.01% to 1% molybdenum disulfide by weight and 0.01% to 7% strontium sulfide by weight.
2. The batch as claimed in claim 1, characterized in  
10 that the percent of strontium sulfide does not exceed 4% of the weight of the batch.
3. The batch as claimed in either of the preceding claims, characterized in that the percent of molybdenum  
15 disulfide does not exceed 0.3% of the weight of the composition.
4. The batch as claimed in any one of the preceding claims, characterized in that the iron content of the  
20 batch is less than 0.04%.
5. The batch as claimed in any one of the preceding claims, characterized in that the batch contains no sulfur.

6. The batch as claimed in any one of the preceding claims, characterized in that it includes up to 0.2% aluminum in powder form.

5 7. An amber glass, characterized in that it is obtained by melting a batch as claimed in any one of the preceding claims.

8. A bulk-tinted amber glass obtained from a batch,  
10 said glass comprising, per 100% by weight of molten glass:

	SiO <sub>2</sub> :	65-72%
	B <sub>2</sub> O <sub>3</sub> :	0.5-3%
	Na <sub>2</sub> O:	5-15%
15	K <sub>2</sub> O:	5-15%
	Li <sub>2</sub> O:	0.2-2%
	CaO:	1-5%
	BaO:	0.5-4%
	Al <sub>2</sub> O <sub>3</sub> :	0.5-3%
20	MoO <sub>3</sub> :	0.05-0.5%
	SO <sub>3</sub> :	0.1-0.7%
	SrO:	2-7%,

the MoO<sub>3</sub> and SO<sub>3</sub> being obtained from molybdenum disulfide MoS<sub>2</sub> and strontium sulfide SrS such that the  
25 MoS<sub>2</sub>/SrS ratio in the batch is between 0.015 and 0.04.

9. The amber glass as claimed in claim 8, characterized in that the  $\text{MoS}_2/\text{SrS}$  ratio is between 0.015 and 0.025.

5 10. The amber glass as claimed in claim 9, characterized in that the batch contains no sulfur.

11. A process for manufacturing a tube or a blank (2, 5, 6, 7, 29) made of amber glass from a batch based on  
10 a soda-lime-silica composition, characterized in that the batch is produced by adding to the composition comprising between 65 and 72%  $\text{SiO}_2$  and between 5 and 15%  $\text{Na}_2\text{O}$ , per 100% by weight of batch, 0.01% to 1% molybdenum disulfide by weight and 0.01% to 7%  
15 strontium sulfide by weight, then the glass is produced in a furnace known per se from said batch, and the tube or the blank is formed directly with its definitive color without any additional heat treatment other than controlled cooling in order to eliminate the thermal  
20 stresses.

12. The process for manufacturing a blank as claimed in claim 11, characterized in that the percent of strontium sulfide does not exceed 4% of the weight of  
25 the batch.

13. The process for manufacturing a blank as claimed in either of claims 11 and 12, characterized in that the percent of molybdenum disulfide does not exceed 0.3% of the weight of the batch.

5

14. The process for manufacturing a blank as claimed in any one of claims 11 to 13, characterized in that the iron particles are eliminated magnetically so that the iron content of the batch is less than 0.04%.

10

15. The process for manufacturing a blank as claimed in any one of claims 11 to 14, characterized in that the batch contains no sulfur.

15

16. The process for manufacturing a blank as claimed in any one of claims 11 to 15, characterized in that the shade of the tint of the glass is controlled by modifying the oxidation-reduction parameters inside the heating furnace by adjustment of the amount of a metal-

20

powder-based reducing agent up to an amount of 0.3% by weight of the batch.

17. An amber glass bulb for a lighting system, obtained from a blank or a tube produced by the process as claimed in any one of claims 11 to 16, for use as an automobile flasher or signaling means.

25